

AMENDMENTS TO THE SPECIFICATION:

Please replace the TITLE with the following amended TITLE:

Method and server for ~~system-synchronizing~~ation remote system with master system

Please replace the ABSTRACT with the following amended ABSTRACT:

Summary:Abstract

The invention concerns a method for synchronizing at least one remote system with a master system, and a server for synchronizing at least one remote system with a master system. The server comprises a communication unit for communicating with the master system and with the at least one remote system over a data network. Further, is the server comprises a control unit. The control unit detects files to be synchronized that are present in the master system but missing in the at least one remote system. Then, it compares corresponding check sums of files to be synchronized, wherein receiving said check sums from the master system and from at least one remote system. The control unit detects corresponding files with different check sums and initiates the transmission of the detected files from the master system to the at least one remote system.

Please replace the second and third paragraphs in the BACKGROUND OF THE INVENTION section (see pages 1-2 of original application) with the following amended paragraphs:

The present invention relates to a method for synchronizing at least one remote system with a master system, wherein files to be updated are ~~send~~sent over a data network connecting the master system with the at least one remote system, and to a server for synchronizing at least one remote system with a master system.

Today systems providing functions for telecommunication services are more and more distributed all over the telecommunication network. ~~A~~An update of these systems often means replication of a master software in different systems. Due to the big amount of data, such master files are normally copied on compact disks and shipped to the different locations. There, the data is loaded into the corresponding memory of the local telecommunication system.

Please replace the fifth, sixth, and seventh paragraphs in the BACKGROUND OF THE INVENTION section (see page 2 of original application) with the following amended paragraphs:

According to one approach, all computers that store copies of a data base file are continuously interconnected and the various copies of the file are continuously synchronized. But, such a continuous interconnection is generally ~~to expenses too~~ expensive and decreases the system efficiency.

According to a further approach, the users mark changes in their respective copies. A manual procedure periodically updates a master data base file from each of the users marked-up copies. The procedure is time-consuming and high error-prone.

According to a further approach, the system creates for each remote file an associated backup file. The system creates a remote file by copying data from the master file. The backup file reflects content of the remote file when the remote file was created or last synchronized. From time to time the system synchronizes data in the master file and the remote files by comparing which of the files, the remote file or the master file, has the more current version of the data. The system then updates the file that has the less current data with data from the file ~~said~~that has the more current data. After synchronizing the files, the system copies all data from the remote file to the backup file.

Please replace the first paragraphs in the SUMMARY OF THE INVENTION section (see page 3 of original application) with the following amended paragraph:

The object of the present invention is achieved by a method for synchronizing at least one remote system with a master system, wherein the method comprising the steps of: detecting files that are present in the master system, but missing in the at least one remote system; sending check sums calculated for corresponding files to be synchronized to a comparison server; detecting files with different check sums; initiating the transmission of said detected files from the master system to the at least one remote system; and sending files to be updated over a data network connecting the master system with at least one remote system. The object of the present invention is further achieved by a server for synchronizing at least one remote ~~sever~~server with a master system, the server comprising: a communication unit for communicating with the master system and with the at least one remote system over a data network; and a control unit for: detecting files to be synchronized ~~said~~that are present in the master system, but missing in the at least one remote system; comparing corresponding check sums of files to be synchronized, wherein receiving said check sums from the master system and from the at least one remote system; detecting corresponding files with different check sums; and initiating the transmission of said detected files from the master system to the at least one remote system.

Please replace the third paragraph on page 10 of the original application with the following amended paragraph:

If the control unit ~~22-62~~ detects corresponding files with different check sums, it initiate the transmission of the detected files from the master system to that remote system, which contains a corresponding file with a different check sum.

Please replace the fifth paragraph on page 10 of the original application with the following amended paragraph:

FIG. 2 shows a flow diagram representing the communication between the server 6, the computer systems 1 and 2 and the control station 7. It shows messages 51 to 62 60, 610, and 620 which are exchange between the server 6, the computer systems 1 and 2 and the control station 7.

Please replace the last paragraph on page 15 of the original application with the following amended paragraph:

A list of the such detected files is transported by the message ~~64~~610 to the computer system 1, which is the master system. The message ~~64~~610 requests from the computer system 1 to send a message to the remote system 2, which contains the content of the files specified in the message.

Please replace the first paragraph on page 16 of the original application with the following amended paragraph:

When receiving the message ~~64~~610, the computer system 1 produce copies of the specified files and transmit these copies, as message ~~62~~620, over the data network 5 to the computer system 2.

Please replace the fourth paragraph on page 16 of the original application with the following amended paragraph:

The computer system 2 replaces the files described in the message ~~62~~by 620 with the files contained in the message ~~62~~620. Further, it deletes the files described in the message 60.

Please replace the last paragraph on page 16 of the original application with the following amended paragraph:

FIG. 3 shows a flow diagram representing the communication between the server 6, the control station 7, the control unit 15 and the control unit 25. Further, it shows a plurality of messages ~~63-630~~ and ~~64~~ to 87 exchanged between the computer systems 1 and 2, the server 6 and the control station 7 over the data network 5.

Please replace the first through fifth paragraphs on page 17 of the original application with the following amended paragraph:

The message ~~63-630~~ corresponds with the message 51 of FIG. 2.

In ~~additional~~addition to the calculation of the file classification, the control unit 62 allocates files to be updated to a number of file blocks. For example, it allocated file classification to three different file blocks. The allocation mainly respects dependencies and relation between files and intends to group dependent files. For performing this allocation, the control unit 62 accesses data describing the data structure of the computer systems 1 and 2. In the following, it performs the data synchronization of each of these blocks separately.

For example, it performs a data synchronization ~~404-111~~ for the first block, then it performs a data synchronization 112 for the second block and then it performs a data synchronization 113 for the third block.

With respect to the first data synchronization~~404-111~~, it sends the messages 64 and 65 to the control units 15 and 25. The messages 64 and 65 requests from the control units 15 and 25 to block the access to files of the block to be updated until the data synchronization ~~404-111~~ is finalized. The messages 64 and 65 contain a respective file classification identifying the files of the first file block.

Then, messages 66 to 76 are exchanged between the ~~sever 7~~ server 6 and the control units 25 and 15 which perform the data synchronization of the files of the first block in accordance with the procedure described by hand of FIG. 2.